

SECRET

EQUIPMENT BOARD  
MINUTES

Meeting Number 2-64 of the Equipment Board was held on 4 March 1964 in the OC Conference Room, 2D03, Headquarters Building. Those present were:



OC-T  
OC-SP  
OC-P  
OC-E  
OC-E  
OC-OS

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I. OLD BUSINESS

None

II. NEW BUSINESS

A. Agenda Item No. 1: Discontinuation of R&D Annual Report

1. Introduction

OC-E has proposed that publication of the document "Summary of Research and Development", heretofore issued on an annual basis, be discontinued.

2. Discussion

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[redacted] opened the discussion by stating that the basic question is whether this document does enough good to warrant its continuation, pointing out that while the document is accurate at the time its written, much of the material is soon obsolescent or obsolete because development of individual items is redirected or discontinued, there are changes in time schedules, etc. Additionally, considerable time and money are involved in preparing and publishing the document. In discussion it was brought out that there are several advantages in retaining the document: it keeps the field advised on a subject of considerable interest, i.e., the status, and direction of our R&D effort; it is distributed outside of Communications and, therefore, keeps others aware of our R&D programs; and it is useful at Headquarters, particularly when it is necessary to brief others of our R&D program. It was brought out that [redacted] contains a complete listing of all clandestine equipment and that this document is revised as new items of equipment come into stock. It was recognized, however, that [redacted] is a considerably different type of document than the R&D manual, but that it, nevertheless, would meet some of the needs which the R&D manual fills, particularly those which exist outside of the Office. With regard to the SPS portion of the R&D manual, [redacted] said that SPS now issued monthly a summary of their R&D projects and he felt that this met their requirements satisfactorily.

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The possibility of issuing the R&D manual in considerably simplified form, for example, fewer photographs, loose leaf pages so that additions and deletions can easily be made, etc, were considered. However, it was generally agreed that publication of the R&D annual in its present form is not required, but that a document should be available at Langley which would provide all the needed information about our program. [redacted] stated that OC-E maintains essentially this type of information for their own use and could make an additional copy available for use at Langley. The Board considered this approach to be acceptable.

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### 3. Board Action

Approved termination of the R&D manual. Instead, OC-E will provide a document to be retained in the Front Office which will provide a summary of all R&D projects.

#### B. Agenda Item No. 2: R&D Status Report

##### 1. Introduction

OC-E periodically briefs the Board on the status of R&D projects. In this particular briefing, because of the approaching end of the Fiscal Year, the briefing will be primarily concerned with expenditures to be made in the fourth quarter of the year. Prior to the meeting, a summary of all expenditures made so far this year plus those planned for the remainder of the Fiscal Year was forwarded to Board members.

##### 2. Discussion

[redacted] opened the discussion by stating that the planned R&D obligations for the remainder of the Fiscal Year have, in large part, already been approved by the Board and by OS. Probably the only item on which full agreement was not yet reached between OC-E and OS was on the expenditure for [redacted] proposed that the list of planned expenditures for the remainder of the Fiscal Year be discussed item by item.

Summarized below is a resume of comments on those items which provoked discussion or which were new to the Board:

a. FM-18. This project involves adding a tri-phase modulator to the OS-8 Frequency Synthesizer which, if successful, will allow 1480 wpm tri-phase operation of the RT-49.

b. DR-10. This is a Morse writing stylus which will be used by field operators to copy Morse code transmissions at speeds up to 35 wpm.

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c. RS-512. This is a [redacted] system which has been under development for approximately a year. It will provide for [redacted]

[redacted] There is considerable interest in this device on the part of SR.

d. RT-60. This is a 1 watt VHF transmitter for [redacted] use which will operate in the vicinity of [redacted] s.

e. RR/B-503. This is a VHF tuner for the RS-503 which will allow the RS-503 to be used to receive the RT-60.

f. CK-30. A requirement still exists for a much smaller coder/ keyer/storage device than now available. OC-E is presently soliciting proposals from industry which may lead to a device smaller than the CK-28.

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g. OS/A-8. Just prior to the Equipment Board meeting, OC-E and OC-OS discussed what our program should be on this equipment. A frequency synthesizer is being developed for the OS-100 which will provide output in 1 kc increments between 2 and 11.999 mcs. However, it will not be available in production quantities until the RS-100 goes into production approximately 15 months from now. This unit is substantially larger than the OS/A-8; however, because quite a large number will be procured for the RS-100 program, unit cost will probably be lower than for the OS/A-8. The OS/A-8 will provide output in 10 ke increments between 2 to 11.99 mcs. The main disadvantage of this unit is that all frequencies must end in 0, and it is on these frequencies that the most powerful stations operate in the high frequency range. Nevertheless, it is believed that we should procure approximately 20 OS/A-8s, and [redacted] will be approached for a price quotation on these units. Hopefully, the unit cost will be between \$2,000 and \$2,500, but it may well be higher. It is expected that production costs on the OS-100 will be in the vicinity of \$1,000 to \$1,500.

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h. Pedal Generator. This is a generator which is placed on the ground and upon which the operator stands, and by a pedal motion operates the device to produce an output of 125 watts. The unit weighs 17 lbs and is being developed for the military. It is believed that we should get several service test models for evaluation because units of this type would be particularly useful in the [redacted] area.

i. CK-100. This is a reworked version of the CO-8, KE-8 and CA-3 which is waterproof and which would be used mostly with the RS-100. Presently, conventional coder/keyer/coders are used with the RS-100 and are the only portion of the set which is not waterproof.

j. G-54. This is a considerably smaller generator than the GN-58; development thus far has been sponsored by the military. Because it is believed that the military will not develop this unit in time for use with the RS-100, OC-E proposed that we participate in its development and evaluation. There was discussion as to whether the Office should fund for this particular project since it can be considered part of the RS-100 program which is being funded by [redacted] However, it was brought out that the hand generator will fulfill other requirements as well as those of the RS-100, and that, therefore, it would be appropriate that we provide the funds to obtain models for our evaluation. Essentially the same philosophy applies to the CK-100 mentioned above.

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[redacted]

1. AS-12 [redacted] \$450,000 is programmed for this project for the remainder of the Fiscal Year. Whether we will actually spend this money, however, has not yet been definitely decided. It appears unlikely that the field end of the [redacted] system can be made small enough for clandestine use. Further, there are certain operational problems involved in the use of the [redacted] system. [redacted] will be spending about 2 weeks at [redacted] later this month, and after his return we will have a much better idea of what the system offers.

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m. AUTOSCAN. S&T is obtaining for SPS a scan receiver which appears to be applicable to certain of our requirements. This receiver will scan a portion of the HF spectrum, and will lock on and intercept transmissions which it is programmed to recognize. Our application for this device would be in the emergency contact position of our present

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contacts. S&T expects to obtain delivery of an AUTOSCAN system in a month or so. Before we obligate funds for reconfiguring the S&T equipment we would like to evaluate their system, but this may not be possible because of the time element.

**C. Item No. 3: Research and Development Approval Procedures**

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Following discussion of the R&D status report, [redacted] gave the Board a short briefing on the format which will be used for presenting research and development requests to Col. White for his approval. The basic write-up includes an identification of the project, objectives, background, technical specifications, contractor and financial arrangements, coordination and security. Except for the contractor and financial arrangement portion, Col. White approved the format. Col. White stated that he does not require the names of contractors, the bid quotations received from them, or the name of the final contractor; he considers the suitability of these arrangements to be within the realm of Mr. Carrison. It will be satisfactory if in this section, the statement is made that competent contractors have been contacted and figures are given showing the approximate cost of the project.



Secretary

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Approval